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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/613,589	07/02/2003	Sakae Suda	1232-5077	5542
27123	7590 01/18/2006		EXAMINER	
MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER		SHOSHO, G	CALLIE E	
	NY 10281-2101		ART UNIT	PAPER NUMBER
·			1714	

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/613,589	SUDA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Callie E. Shosho	1714	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING 6  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (1.136(a). In no event, however, may a red will apply and will expire SIX (6) MONute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication (ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 28	October 2005.		
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allow	rance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	o. 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-3,5 and 7-11 is/are pending in the 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-3,5 and 7-11 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the left of the specific speci	ccepted or b) objected to be drawing(s) be held in abeyant bection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d	).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application Number: 10/613,589

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## **DETAILED ACTION**

1. All outstanding rejections are overcome by applicants' amendment filed 10/28/05.

In light of the new grounds of rejection set forth below which are necessitated by the use of a new reference against the present claims, namely, Sato et al. '903 (U.S. 2003/0232903) as well as new grounds set forth with respect to Sato et al. '343 (U.S. 2003/0236343), the following action is non-final.

## Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-3, 5, and 7-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al. '343 (U.S. 2003/0236343).

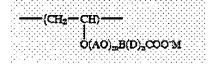
Sato et al. '343 disclose dispersible composition including ink or toner comprising medium that is solvent or binder resin, functional substance, i.e. colorant, and amphipathic block polymer comprising monomer of the formula:

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where A is straight chain or branched alkylene group having 1-15 carbon atoms, m is 0-30, B is single bond or alkylene, D is aromatic group, n is 1-10, R is hydrogen or alkyl group, and M is mono- or poly-valent cation. The block polymer contains both hydrophobic and hydrophobic blocks. It is further disclosed that the colorant is encapsulated by the block polymer. There is also disclosed image forming method comprising applying the ink to substrate to form image (paragraphs 2, 22, 25-28, 31, 84-85, 87-88, 95-86, 99-101, 105, 127-128, 135, and 141-143).

In light of the above, it is clear that Sato et al. '343 anticipate the present claims.

4. Claims 1, 3, 5, 7, 9, and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al. '903 (U.S. 2003/0232903).

Sato et al. '903 disclose dispersible composition including ink comprising solvent, colorant, and block polymer obtained from vinyl ether of the formula –(CH<sub>2</sub>-CH)- wherein R<sup>1</sup> is phenyl, -(CH(R<sup>2</sup>)-CH(R<sup>3</sup>)-O)-R<sup>4</sup> where R<sup>4</sup> is phenyl and R<sup>2</sup> and R<sup>3</sup> each represent H or CH<sub>3</sub>, or – (CH<sub>2</sub>)<sub>m</sub>- (O)<sub>n</sub>-R<sup>4</sup> where m is 1-36 and n is 0 or 1 which is identical to the presently claimed monomer unit. It is disclosed that the block polymer encapsulates the colorant and that the block polymer is obtained from hydrophilic and hydrophobic monomer units, i.e. is amphipathic. There is also disclosed image forming method comprising applying the ink to substrate to form image (paragraphs 1, 7, 11-13, 21, 25, and 42).

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In light of the above, it is clear that Sato et al. '903 anticipate the present claims.

## Response to Arguments

5. Applicants' arguments regarding JP 09-157653, Rao (U.S. 5,283,148), Schimmel et al. (U.S. 5,585,427), Nguyen et al. (U.S. 5,990,202), and Sato et al. '364 (U.S. 2003/0050364) have been fully considered but they are moot in view of the discontinuation of the use of these references against the present claims.

6. Applicants' arguments filed 10/28/05 have been fully considered but with respect to Sato et al. '343 they are not persuasive.

Specifically, applicants argue that there is no disclosure in Sato et al. '343 that the block polymer encapsulates the colorant as now required in all the present claims.

However, while it is noted that the examiner did not previously use Sato et al. '343 to reject claim 6, which has been cancelled in the amendment filed 10/28/05 and its limitation, namely, that the block polymer encapsulate the colorant, inserted into claim 1, upon reconsideration of the reference, it is noted that paragraph 135 of Sato et al. '343 does in fact disclose that the block polymer encapsulates the colorant. Thus, it is the examiner's position that Sato et al. '343 do meet all the requirements of the present claims.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Callie E. Shosho
Primary Examiner
Art Unit 1714

CS 1/14/06